CLAIMS

What Is Claimed Is:

1. A mounting structure which is arranged on two abutting glass panels (1, 2), so that the glass panels are connected with each other, the mounting structure comprising:

two pairs of clamping plates (3, 4), with the clamping plates of one of said pairs being fixed to opposite sides of one of said glass panels, and with the clamping plates of the other pair being fixed to opposite sides of the other one of said glass panels, with the inner sides of the clamping plates abutting the corresponding sides of the glass panels (1, 2), wherein the clamping plates (3, 4) of each pair of clamping plates have, at the outer sides thereof, undercut longitudinal slots (5) with a bottom and undercut shoulders (8), with the clamping plates of one pair (4) abutting at least one clamping plate of the other pair (3) in a manner that the undercut slots of the abutting clamping plates are mutually aligned; and

a connecting plate (6) located in the mutually aligned longitudinal slots of two of the abutting clamping plates and fixed to the abutting clamping plates (3, 4) by locking screws (7) which are threaded through the connecting plate (6) and abut against the bottom of the mutually aligned longitudinal slots (5) to clamp the connecting plate against the

inner sides of the undercut shoulders (8) of the respective undercut slot (5) in the abutting clamping plates (3, 4)

2. The mounting structure according to claim 1, wherein each of the clamping plates (3, 4) on each side of the glass panels abut against each other in an end-to-end alignment allowing the connecting plate (6) to be located at any position along the longitudinal slot (5)

3. The mounting structure according to claim 1, wherein the abutting clamping plates (3, 4) abut each other in an angle therebetween, and wherein the connecting plate (6) has a corresponding angle.

4. The mounting structure according to claim 2, further comprising a third pair of clamping plates (15) fixed to opposite sides of a further glass panel and which are provided at their outer sides thereof with undercut longitudinal slots (5) with undercut shoulders, wherein one clamping plate (15) of the third pair transversely abuts one of the clamping plates (4) of the one of the first-mentioned pairs (3, 4) in a manner that the respective longitudinal slots (5) are mutually aligned, and wherein the other clamping plate (15) of the third pair transversely abuts one of the clamping plates (3) of the other of the first-mentioned pairs (3, 4) in a manner that that the respective longitudinal slots (5) are mutually aligned, and wherein additional connecting plates (6) are located in

the mutually aligned longitudinal slots (5) to connect the third pair of clamping plates (15) to the first-mentioned two pairs of clamping plates (3, 4).

5. The mounting structure according to claim 3, with the angular connecting plate (6) comprising two recesses (17) which are formed in its leg (16) protruding from the undercut longitudinal slot (5) of the associated clamping plate (4), into which recesses two undercut shoulders (8) of the longitudinal slot (5) of the other clamping plate (3) engage.

6. The mounting structure according to claim 3, with the longitudinal slot (5) of the clamping plate (3) of the other pair of clamping plates which is abutted by the two clamping plates (4) of the one pair of clamping plates having recesses formed in its undercut shoulders (8) which are protruded by the leg of the respective associated angular connecting plate (6) engaging said longitudinal slot (5)

7. The mounting structure according to claim 1, with the undercut longitudinal slots (5) of at least one of the clamping plates (3, 4) of a pair of clamping plates being provided with mounting inserts for supporting elements for structural panels or hinges.